

CLIPPEDIMAGE= EP000777278A1

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TITLE: Vibration driven motor with shape memory alloy for  
the rotor/stator  
interface

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INVENTOR-INFORMATION:

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ABSTRACT:

<CHG DATE=19980116 STATUS=N> The vibrator includes the stator  
(1) mounted on a  
body (2), and the rotor (4) on an axis (3) driven by  
frictional contact with  
the stator as the latter undergoes deformation. The face of  
the stator carries  
a ring of piezoceramic elements (5) excited for this purpose  
in a harmonic mode  
by a sinusoidal voltage.

The regions of contact between the stator and rotor are  
coated (6) with a few  
millimetres of copper-zinc-aluminium alloy, extended into a  
number of e.g.  
circular studs defined by cavities machined in the shape  
memory alloy coating,  
or bonded between two such coatings.